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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,531	09/30/2003	Dinh Quoc Nguyen	100-23200 (P05700)	8327
33402	7590	09/15/2004	EXAMINER	
LAW OFFICES OF MARK C. PICKERING			FENTY, JESSE A	
P.O. BOX 300			ART UNIT	PAPER NUMBER
PETALUMA, CA 94953			2815	

DATE MAILED: 09/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/676,531	Applicant(s) NGUYEN, DINH QUOC	
	Examiner Jesse A. Fenty	Art Unit 2815	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-15 and 20 is/are allowed.
- 6) ☒ Claim(s) 16, 17, 21 and 24 is/are rejected.
- 7) ☒ Claim(s) 18, 19, 22, 23, 25-28 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

2. Claims 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Alter (U.S. Patent No. 4,979,001).

In re claim 16, Alter (Fig. 9) discloses a method of forming a semiconductor device, comprising:

Forming a semiconductor material (16) of a first conductivity type;

Forming a first well (N-) and a second well (24) of a second conductivity type in the semiconductor material, the second well surrounding the first well;

Forming a plurality of regions (P and 56) of the first conductivity type in the top surface of the semiconductor material so that a first semiconductor region lies in the first well and a second semiconductor region lies in the second well; and

Forming a plurality of regions (N+ and 57) of the second conductivity type in the top surface of the semiconductor material so that a third semiconductor region lies in the first well and a fourth semiconductor region lies in the second well.

In re claim 17, Alter discloses the device of claim 16, wherein the second semiconductor region contacts and surrounds the second semiconductor region.

Art Unit: 2815

3. Claims 21 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Menegoli (U.S. Patent No. 6,784,489 B1).

In re claim 21, Mengoli (Fig. 3) discloses a semiconductor device, comprising:

A semiconductor material (16) of a first conductivity type having a top surface and a dopant concentration;

A first well (12) of a second conductivity type formed in the semiconductor material, the first well contacting the top surface of the semiconductor material and having a dopant concentration;

A first semiconductor region (22) of the second conductivity type formed in the first well, the first semiconductor region having a greater dopant concentration than the dopant concentration of the first well; and

A second semiconductor region (10) of the first conductivity type formed in the first well, the second semiconductor region having a greater dopant concentration than the dopant concentration of the semiconductor material, the second semiconductor region contacting and surrounding the first semiconductor region.

In re claim 24, Menegoli discloses the device of claim 21, and further comprising a second well (20) of the second conductivity type formed in the semiconductor material, the second well contacting the top surface of the semiconductor material, and being spaced apart from the first well.

Allowable Subject Matter

4. Claims 5-15 and 20 are allowed.

Art Unit: 2815

5. Claims 18, 19, 22, 23 and 25-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 5, 6 and 16-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

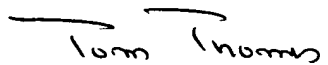
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2815

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jesse A. Fenty whose telephone number is 571-272-1729. The examiner can normally be reached on 5/4-9 1st Fri. Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


TOM THOMAS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Jesse A. Fenty
Examiner
Art Unit 2815